

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A drill bit comprising:
a body having a proximal end and a distal end with a closed face, the body defining an axis and comprising a first portion adjacent to the proximal end and a second portion adjacent to the distal end wherein the portions are substantially cylindrical and a first outer diameter of the first portion is greater than a second outer diameter of the second portion;
an intermediate ring extending radially outward circumferentially about the second portion;
a coupling at the proximal end, the coupling adapted for connection with a rotary driver;
a primary cutting surface substantially located on the closed face, comprising at least one outer cutter segment;
a secondary cutting surface substantially located on the intermediate ring; and
a depth stop located between the first portion and the distal end circumferentially around the second portion, the depth stop adjustably secured to the first portion by a plurality of adjusting screws in a manner to limit penetration of the bit.
2. (Original) The drill bit of claim 1 wherein the adjusting screws are substantially parallel to the axis.
3. (Canceled)
4. (Currently amended) The drill bit of claim 1 ~~3~~ wherein the first outer diameter is approximately thirty-three percent greater than the second outer diameter.

5. (Currently amended) The drill bit of claim 1 ~~3~~ wherein the first outer diameter is between about 1.9 and 2.7 inches and the second outer diameter is between about 1.5 and 2.1 inches.

6-7. (Canceled)

8. (Currently amended) The drill bit of claim 1 ~~3~~ wherein an outer diameter of the intermediate ring is between about 1.9 and about 2.3 inches.

9. (Currently amended) The drill bit of claim 1 ~~3~~ wherein the at least one outer ~~diamond~~ cutter segment comprises a plurality of outer diamond cutter segments spaced around a circumference of the closed face.

10. (Original) The drill bit of claim 9 wherein the primary cutting surface further comprises at least one inner diamond cutter segment extending across the closed face.

11. (Original) The drill bit of claim 10 wherein the outer and inner diamond cutter segments are water cooled.

12. (Original) The drill bit of claim 1 wherein the coupling is threaded to fit a drilling machine.

13. (Canceled)

14. (Original) The drill bit of claim 1, further comprising a pilot drill extending axially from the distal end of the body.

15. (Currently amended) The drill bit of claim 1 ~~13~~ wherein the pilot drill is tipped by a diamond cutter tip.

16. (Currently amended) The drill bit of claim 15 ~~14~~ wherein the ~~diamond~~ cutter segments and tip are water cooled.

17. (Currently amended) The drill bit of claim 1 ~~14~~ further comprising at least one internal cooling channel extending longitudinally along the bit.

18. (Original) The drill bit of claim 17, further comprising:
a stop outer diameter approximately greater than the first outer diameter; and
a stop inner diameter slightly greater than the second outer diameter.

19. (Original) The drill bit of claim 1 wherein the depth stop is substantially disk shaped.

20. (Original) The drill bit of claim 1 wherein the diamond cutter segments are water cooled.

21-22. (Canceled)

23. (Currently amended) A drill bit comprising:
a body having a distal end with a closed face and a proximal end, the body defining an axis and comprising a first portion adjacent to the proximal end, a second portion adjacent to the distal end, and an intermediate ring wherein
the portions are substantially cylindrical,
an outer diameter of the first portion is between about 1.9 and about 2.7 inches,
an outer diameter of the second portion is between about 1.5 and about 2.1 inches,
the intermediate ring extends radially outward circumferentially about the second portion, and
a BantamTM coupling at the proximal end, the BantamTM coupling adapted for connection with a rotary driver,
a depth stop adjustably secured to the first portion by a plurality of adjusting screws wherein the adjusting screws are substantially parallel to the axis, the depth stop being adjustably located between the first portion and the distal end circumferentially around the second portion in a manner to limit penetration of the bit, a plurality of springs located between and biasing the

first portion from the depth stop, each spring of the plurality of springs being located circumferentially about one of the plurality of adjusting screws;

a primary cutting surface substantially located on the closed face, comprising a plurality of outer diamond cutter segments spaced around a circumference of the closed face and at least one inner diamond cutter segment extending across the closed face,

a secondary cutting surface substantially located on the intermediate ring; and

a pilot drill extending axially from the distal end of the body wherein the pilot drill is tipped by a cutter tip.

24. (Original) The drill bit of claim 23 wherein the depth stop is substantially disk shaped, with a stop outer diameter of about 2.5 inches and a stop inner diameter of about 1.9 inches.

25. (Original) The drill bit of claim 23 wherein the diamond cutter segments are water cooled.

26. (Original) The drill bit of claim 25 further comprising at least one internal cooling channel extending longitudinally along the bit.

27. (Currently amended) ~~The A~~ drill bit of claim 23, further comprising:
a body having a proximal end and a distal end with a closed face, the body defining an axis and comprising a first portion adjacent to the proximal end, a second portion adjacent to the distal end, and an intermediate ring wherein the portions are substantially cylindrical, a first outer diameter of the first portion is greater than a second outer diameter of the second portion, and the intermediate ring extends radially outward circumferentially about the second portion;
a coupling at the proximal end, the coupling adapted for connection with a rotary driver;
a depth stop adjustably secured to the first portion by a plurality of adjusting screws wherein the adjusting screws are substantially parallel to the axis, the depth stop being adjustably located between the first portion and the distal end circumferentially around the second portion in a manner to limit penetration of the bit;

a plurality of springs located between and biasing the first portion from the depth stop, each spring of the plurality of springs being located circumferentially about one of the plurality of adjusting screws;

a primary cutting surface substantially located on the closed face, comprising a plurality of outer diamond cutter segments spaced around a circumference of the closed face and at least one inner diamond cutter segment extending across the closed face,

a secondary cutting surface substantially located on the intermediate ring; and
a pilot drill extending axially from the distal end of the body wherein the pilot drill is tipped by a cutter tip.

28. (Original) The drill bit of claim 23 wherein the cutting surfaces comprise diamond.

29. (Original) The drill bit of claim 23 wherein the cutting surfaces comprise synthetic diamond.

30. (Currently amended) A method of drilling a hole, defined by a predetermined depth, a first diameter, and a different second diameter, in a surface, the method comprising:

locating a drilling machine having a drill bit, constructed in a manner to drill and core two different diameters in a single operation, over a target location;

compensating for wear on the drill bit by setting a depth stop to stop travel of the drill bit at the predetermined depth;

operating the drilling machine to drill the diamond core bit into a surface at the target location until the depth stop contacts a surface of the target location, a primary cutting surface substantially located on a closed face of a first portion at a distal end of a body of the drill bit forming a portion of the hole defined by the first diameter and a secondary cutting surface substantially located on an intermediate ring extending radially outward circumferentially about a second portion of the body of the drill bit forming a portion of the hole defined by the second diameter in one step; and

removing the drill bit from the hole.

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31-40. (Canceled)